

AMENDMENT

In the Specification:

Please replace Table 5, beginning at page 38, with the following amended Table 5:

Table 5:	Alignment of	f various sp	pecies OX2R	homologs 1	and 2:				
OX2RH1 MU	MECEWRISALA	AVLLIWGVFVAC	SS		CTDKN	ОТТОИ	(SEQ II	O NO:	25)
OX2RH1 RT	MLCEWRTSHVA	AVI.I.TWGVFAAF	ESS		CPDKNO	NOMTC	(SEQ II		26)
OX2RH2 MU									
OX2RH1 HU	MLCPWRTANLO	GLLLILTIFLVA	AEAEGAAQPNNS	SLMLQTSKENHA	LASSSLCMDEK	NQTIC	(SEQ I	O NO:	27)
OX2RH2_HU					MGGK	NOTMC	(SEQ I	ONO:	28)
_									
OX2RH1 MU	NSSSPLTQVN	TTVSVQIGTKAI	LCCFSIPLTK	VLITWIIKLRG	LPSCTIAYKVD	r-ktn	(SEQ I		29)
OX2RH1_RT	NSST-MTEVN	TTVFVQMGKKAI	LCCPSISLTKV	ILITWTITLRG	QPSCIISYKAD'	TRETH	(SEQ I	D NO:	30)
OX2RH2_MU				RG			(SEQ I		31)
OX2RH1_HU				JIIITWEIILRG			(SEQ II		
OX2RH2_HU	YSTI-FAEGNI	ISQPVLMDINAV	/LCCPPIALRNI	JIIITWEIILRG			(SEQ I	D NO:	33)
				**	*** :** :	* :*:			
OX2RH1_MU				YTCETVTPEGN			(SEQ I		
OX2RH1_RT				RYSCDIAVPDGN			(SEQ I		35)
OX2RH2_MU	ET-CLGRNITWASTPDHIPDLQISAVALQHEGNYLCEITTPEGNFHKVYDLQVLVPPEVT ETNCTDERITWVSRPDQNSDLQIRTVAITHDGYYRCIMVTPDGNFHRGYHLQVLVTPEVT							O NO:	36)
OX2RH1_HU							(SEQ II		
OX2RH2_HU				YRGIVVTPDGN **:**			(SEQ I	O NO:	38)
	· · · · · ·					• ^ ^ ^ •			
OX2RH1_MU				TSESHSNGTVT			(SEQ I		39)
OX2RH1_RT				KNESHSNGTVT			(SEQ I		40)
OX2RH2_MU				KSESHSNGTVT			(SEQ I		
OX2RH1_HU				KQEYWSNGTVT			(SEQ I		
OX2RH2_HU	LFQSRNITAVO	CKAVTGKPAAQI	ISWIPEGSILAT	KQEYWGNGTVT	VKSTCPWEGH-1		(SEQ I	D NO:	43)
	* .* :**	*:*::****	** *:* .:	* .****	*:*** **	* *			
OX2RH1 MU	CIVSHLT-GNO	QSLSIELSRGGN	QSLRPYIPYI1	PSIIILIIIGC	ICLLKISGFRK	CKLPK	(SEQ I	ONO:	44)
OX2RH1_RT	CVVSHLTTGN	QSLSIELGRGG	OQLLGSYIQYII	PSIIILIIIGC	ICLLKISGCRK	CKLPK	(SEQ I	O NO:	45)
OX2RH2_MU	-	-		VKMVLLGII			(SEQ I		
OX2RH1_HU				KIIYSIYHPY			(SEQ I		47)
OX2RH2_HU			RTSGSPALSLLI	ILYVKLSLF	VVILVTTGF	VFFQR	(SEQ I	O NO:	48)
	* *** * **	:** ::*			* *				
OX2RH1_MU				AFPVSQGEVNG			(SEQ I		
OX2RH1_RT				AHPASQGKVNG			(SEQ I		
OX2RH2_MU	RNVTRT						(SEQ I		
OX2RH1_HU	SQWLQKI						(SEQ II		
OX2RH2_HU	INHVRKVL						(SEQ II	O NO:	53)
OV2D homel	og polypepti	ido molation	schine (9)						
ONZK HOMOI	og porypept:	human H1	himan H3	mouse H1	mouse H2	mous	o H3		
rat H1	Ig domain	54	52	72	73	32	C 113		
Lac III	TM/cvt	34	0	84	0	0			
mouse H3	Ig domain	33	29	39	46	J			
	TM/cyt	?	46	0	54				
mouse H2	Ig domain	60	51	82					
-	TM/cyt	?	49	0					
mouse H1	Ig domain	53	47						
	TM/cyt	?	0						
human H2	Ig domain	79							
						_			

TM/cyt ?

? = sequence unavailable; "0" = no significant matching

Comparison of primate and rodent H2 with rodent H4 polypeptides; note similarity between the rodent H2 and H4:

pOX2RH2 rOX2RH2	1 1	MGGKQMTQN-YSTIFAEGNISQPVL	24 0	(SEQ ID NO: 54)
rOX2RH4	ī	MHALGRIPTLTLLIFINIFVSGSSCTDENQTIQNDSSSSLTQVNTTMSVQ	-	(SEQ ID NO: 55)
pOX2RH2		MDINAVLCCPPIALRNLIIITWEIILRGQPSCTKAYKKETNETKETNCTV	74	(SEQ ID NO: 56)
rOX2RH2 rOX2RH4	1 51	RGQPSCIMAYKVETKETNET-CLG MDKKALLCCFSSPLINAVLITWIIKHRHLPSCTIAYN-LDKKTNETSCLG * *** **	23 99	(SEQ ID NO: 57) (SEQ ID NO: 58)
pOX2RH2 rOX2RH2 rOX2RH4	24	ERITWVSRPDQNSDLQIRPVDTTHDGYYRGIVVTPDGNFHRGYHLQVLVT RNITWASTPDHIPDLQISAVALQHEGNYLCEITTPEGNFHKVYDLQVLVP RNITWASTPDHSPELQISAVALQHEGTYTCEIVTPEGNLEKVYDLQVLVP *** * * * * *** *	73	(SEQ ID NO: 59) (SEQ ID NO: 60) (SEQ ID NO: 61)
pOX2RH2 rOX2RH2 rOX2RH4	74	PEVNLFQSRNITAVCKAVTGKPAAQISWIPEGSILATKQEYWGNGTVTVK PEVTYFLGENRTAVCEAMAGKPAAQISWTPDG-DCVTKSESHSNGTVTVR PEVTYFPGKNRTAVCEAMAGKPAAQISWTPDG-DCVTKSESHSNGTVTVR ***. * * **** * * * * * * * * * * *	122	(SEQ ID NO: 62) (SEQ ID NO: 63) (SEQ ID NO: 64)
pOX2RH2 rOX2RH2 rOX2RH4		STCPWEG-HKSTVTCHVSHLTGNKSLSVKLNSGLRTSGSPALSLLIILYV STCHWEQNNVSAVSCIVSHSTGNQSLSIELSRGTTST-TPSLLTILYV STCHWEQNNVSVVSCLVSHSTGNQSLSIELSQGTMTTPR-SLLTILYV *** ** . * * . *	169	(SEQ ID NO: 65) (SEQ ID NO: 66) (SEQ ID NO: 67)
pOX2RH2 rOX2RH2 rOX2RH4	170	KLSLFVVILVTTGFVFFQRINHVRKVL 250 KMVLLGIILLKVGFAFFQKRNVTRT 194 KMALLVIILLNVGFAFFQKRNFART 270		(SEQ ID NO: 68) (SEQ ID NO: 69) (SEQ ID NO: 70)